

2.6 I

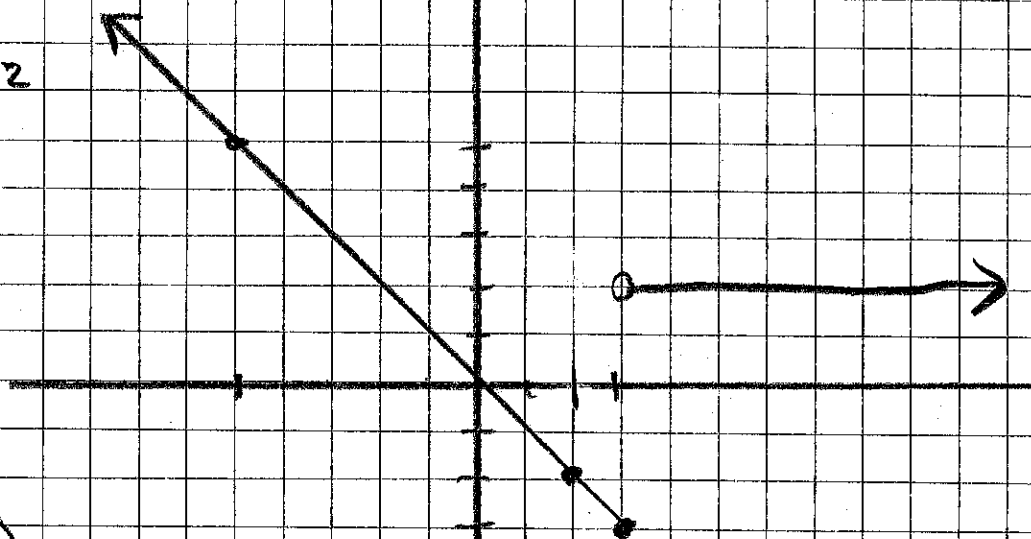
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38. $f(x) = \begin{cases} -x & \text{if } x \leq 3 \\ 2 & \text{if } x > 3 \end{cases}$

①
 $y = -x$

x	y
3	-3
2	-2
-5	5

②
 $y = 2$



D: \mathbb{R}

R: $[-3, +\infty)$

39. $h(x) = \begin{cases} -1 & \text{if } x < -2 \\ 1 & \text{if } -x > 2 \end{cases}$

①
 $y = -1$

②
 $y = 1$



D: $(-\infty, -2) \cup (2, +\infty)$

R: $\{-1, 1\}$

40,

40. $f(x) = \begin{cases} x & \text{if } x < -3 \\ 2 & \text{if } -3 \leq x < 1 \\ -2x+2 & \text{if } x \geq 1 \end{cases}$

①
 $y = x$

-3	-3	0
-5	-5	
-8	-8	

②
 $y = 2$

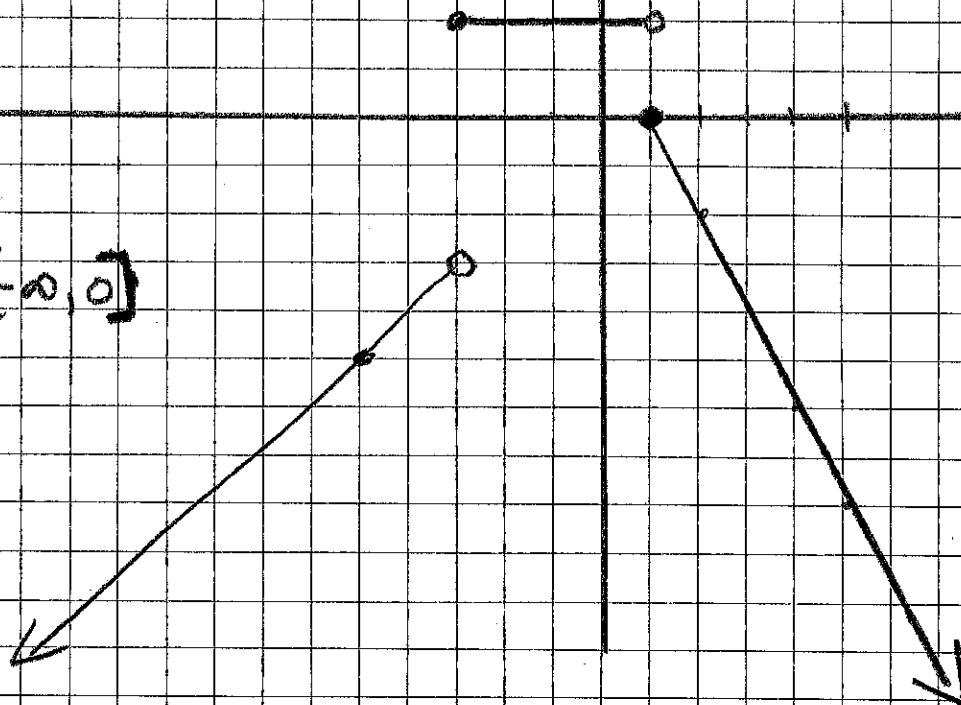
-3	2	
1	2	0

③
 $y = -2x+2$

1	0	
5	-8	

D: \mathbb{R}

R: $\{2\} \cup (-\infty, 0]$



44.

$f(x) = \begin{cases} 2 & \text{if } x < -1 \\ 2x & \text{if } -1 \leq x \leq 1 \\ -x & \text{if } x > 1 \end{cases}$